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ABSTRACT

PROCESS

- 5 The present invention provides a process for the preparation of an MR contrast agent, said process comprising:
 - i) obtaining a solution in a solvent of a hydrogenatable, unsaturated substrate compound and a catalyst for the hydrogenation of said substrate compound;
 - ii) introducing said solution in droplet form into a chamber containing hydrogen gas (H_2) enriched in para-hydrogen $(p^{-1}H_2)$ and/or ortho-deuterium $(o^{-2}H_2)$ whereby to hydrogenate said substrate to form a hydrogenated imaging agent;
 - iii) optionally subjecting said hydrogenated imaging
 agent to a magnetic field having a field strength below earth's
 ambient field strength;
 - iv) optionally dissolving said imaging agent in an aqueous medium;
 - v) optionally separating said catalyst from the solution of said imaging agent in said aqueous medium;
 - vi) optionally separating said solvent from the solution of said imaging agent in said aqueous medium; and
 - vii) optionally freezing the solution of said imaging agent in said aqueous medium.

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